

1871 Perry County Jail Specifications

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Specification of labor and materials required to erect and complete in all its parts the Sheriff's residence and jail for Perry County Ill. on a lot of ground situated in the Town of Pinckneyville, Ill.; in said County. Being Lot N° fifty (50) in the Commissioners addition in said town of Pinckneyville.

General Conditions.

For the general character and dimensions of the building the contractor is referred to the accompanying drawings prepared by Samuel Hannaford, architect, Cincinnati, Ohio.

The drawings and this specification are to be parts of the same contract and mutually binding upon the contractor. Figured dimensions are to be strictly adhered to and the detail drawings are to take precedence over small scale drawings.

The contractor must furnish all the various kinds of materials, labor, tools, machines, transportation, scaffolding, etc. required to fully complete the structure in all its parts. All material must be the best of the respective kinds named and in perfectly suitable condition when placed permanently in the structure.

The contractor is to be fully responsible for the safety and good condition of work and materials until the same shall be finally accepted by the County Commissioners of said county. The contractor properly stay and brace all portions of the work while in progress of building and any and all damage to the structure or any of its parts from winds, rains, frost, or accident must be made good by the contractor at his own expense.

Payments to be made during the progress of the work in accordance with terms of contract but such partial

payments are not to be considered as an acceptance of work or materials.

The said court reserve the right to make any alterations either in the quantity or quality of the work and materials they may think proper without in any way invalidating the contract made under these plans specifications, etc. but previous to such changes being made the price for such changes shall be agreed upon between the contacting parties and if additional work, the time required to execute the same shall be agreed upon between the parties to the contract and legally endorsed upon the contract.

The said county court shall have full power to refuse any unsound material or material different from that specified or any imperfect workmanship and cause the same to be made good at expense of contractor.

The entire site of the jail also the cross hall between jail and sheriff's residence to be excavated for a cellar to the depth shown on section. The site of residence to be truly leveled off. Trenches for all foundation walls and piers to be dug out as required, made truly level and well rammed where requisite.

All surplus earth to be disposed of as may be directed by superintendent.

The yard immediately adjacent to building to be graded as shown by elevations

Excavate for cellar ways as required

Excavate one cistern in rear of building as shown.

Foundation Walls.

All the foundation walls, piers, step walls, etc. colored brown on drawings to be built to the forms and dimensions figured of sound building freestone of the best quality the vicinity affords, laid in strong lime mortar and grouted every course.

The first course of footings to be of the thickness shown, laid as headers. The length of stones to be full width of the course to be laid in two inches of mortar and well rammed to positions to be laid close and level. All portions of the walls to be well bonded. Beds of all stones to be flat, and all must be laid in wall on their "quarry bed".

All portions of the walls showing above exterior grade lines must be laid up in regular course rock faced work. Ends and beds of all stones to be build dressed. Corners and angles plumb corner dressed. Range work to be well bonded and backed up solid. The stones of range courses to have drove margins 1 inch wide. Rock face to have light projections.

Jambs and corners of all openings to be neatly hammer dressed. All exterior work to be pointed with cement, interior face in cellar with good lime mortar.

All walls and piers to be properly and truly leveled up to receive the superstructure.

Step walls to be finished as rock range work above ground. Build in all drainpipes, iron gratings, etc..

Fill in and well ram the earth around walls as they are built. Contractor for this department must remove all of his own building rubbish or dispose of it on the premises as the superintendent may direct.

Contractor to furnish all scaffolding.

Mortar to be composed of clean sharp sand and strong lime mixed with clean water.

Finish verandah piers as range work.

Cut Stonework.

All the material for this portion of the work to be of best quality freestone, uniform in texture and color. All window caps and sills caps and thresholds of doors, hearthstones, chimney coping, exterior steps to entrances to kitchen, and rear hall capping of foundation piers to receive columns in cellar. Coping frame of exterior cellar way all to be of freestone dressed and rubbed smooth and set to position in the structure with all mortar cement, anchors, clamps, etc. required.

Window sill in Sheriff's residence 5" X 7". The caps with segmented crowns as per detail. Plain caps 4" X 8 1/2". 8" capping around gable windows. 5" thick to project one inch from wall.

Caps in jail 8 1/2" X 18". Exterior sills 5" X 15" interior sills 3" X 5 1/2" as per detail.

The door from Sheriff's residence to jail to finish with stone cap on jail side 8 1/2" X 13". Door in cellar from hall to jail cellar to have threshold 8" X 20".

Chimneys of residence 2" thick in one piece to each chimney, properly perforated for flues.

Coping of vent shaft to be of freestone worked, as shown by drawings, the different lengths anchored together.

Coping frame of exterior cellar way 8" X 12" securely anchored and leaded together.

Work to be properly pointed and up and cleaned off at completion.

Steps to cellar in exterior cellar way to be of freestone built into walls. Cap to opening to vent shaft in cellar of stone

Brickwork.

All the brick used in the structure must be of good quality hand burned, smooth, and well handled and in such proportions of hard paving. Arch front, and soft quantities as may be demanded by this specification.

The various walls and piers tinted red on drawings are to be built of brick to the dimensions and forms shown. Walls to be straight, level, and plumb. Brick to be laid in the wall wet.

In 9" walls every fifth course to be headers. In other walls every 7th course to be headers.

Walls of residence to be well slushed throughout. Walls of jail to be grouted full every course. Smooth hard burned front brick to be used in all exterior faces of building, vent shaft and chimneys and in facing up the interior walls of jail. The joints of all this work to be struck full flush and smooth. The vent shaft to be built entirely of hard brick; the interior to be faced with arch brick joints struck. That portion in cellar to be pointed on cellar side.

Turn two ringed arches over door from hall to jail cellar. Also two ringed relieving arches over all openings in brick walls. Turn dead arch over ventilation gratings in

base of stack in jail. Door in base of vent shaft to have two ringed segmented arches over it.

Turn trimmer arches for reception of hearthstone.

Walls of jail must be built between two lines. Walls to be racked back and no portion of the work must be carried more than one scaffold's height above another with the permission of the superintendent.

Construct open fireplaces and carry up flues as shown "withs" between flues to be well bonded in. Flues to be well pargetted on inside and plastered on breasts where they pass through joists or other timbers. All bricks to be entirely bedded in mortar. Flues to be cleaned out and left in perfect condition for use at completion. Make provision for stove pipes in all rooms. Bed all timbers, plates, purlins, and ironwork. Carefully build in between joists back in stone and ironwork. Make all requisite provision for plumbing work. Turn arch over hole 12" diameter in one side of vent shaft as inlet for furnace smoke pipe.

Contractor must fill in all putlog holes and execute all such jobbing as fairly belongs to him. Also provide all scaffolding.

Mortar to be composed of clean sharp sand and fresh slaked strong lime mixed with clean water.

The wall between sheriff's residence and jail to be carried up to underside of roof sheathing.

Vent holes to be left in real gable of jail.

Corbeling for gutters on jail and finish of chimneys to be executed as shown with paving brick.

Build in all requisite grounds. All leveling for timbers to be carefully done.

The face of brick walls in female prison ward to be finished with struck joints.

Build in the hot air flue to supply female prison. Leave pass door from attic of residence to attic over jail 2' 6" X 4' 0", turn two ringed arch over same.

Build one cistern where indicated on plans or where directed by superintendent. With a capacity of 200 barrels to be walled up with 4" wall of arch or paving brick laid in cement; the interiors to be well cemented. The cistern to have a double bottom one course of brick laid flat and the other on edge to be laid in cement. Arch over top and set the cast iron manhole and cover.

The entire cellar to be paved with hard burned paving brick laid on 4 inch bed of sand

Carpenters Work and Lumber.

All timber and lumber unless otherwise specified to be of sound seasoned white pine.

Floor joists in residence to be 2" X 10", lower story of pine, 2nd story of poplar, ceiling joists of same 2" X 8" of poplar. Floor joists of female prison to be spaced 12" from centers. All others 16" from centers, each length of joists to have one row of 1" X 3" cross bridging; all well nailed.

Joists to be framed around all stairways, open fireplaces, flues, etc. all with double timbers and trimmer heads; trimmers to be trimmed together with hardwood and gulleyed on lath edge. Also provide trimmers under all stud partitions running parallel with same.

Lay floors in residence with 1st corm white pine flooring tongued, grooved, and dressed. No portion of this material to exceed 6 inches in width. All to be secret nailed and even smoothed off.

Provide girder in cellar 10" X 14" to support jail floor joists. Anchor the lengths together with 1/2" X 2" wrought iron hooked end strap anchors, gained into top of anchors and well spiked. Floor joists of jail 2" X 14" spaced 12 inches from centers to have full 6 inches bearing on walls and to lap over the entire width of girder. Provide four rows of 1" X 3" cross bridging well nailed. Joists to be framed for floor registers where shown on plan. Spike joists to girder. Provide lintels of dry sound timbers for all openings so requiring in brick walls.

Roof to be constructed as shown with three trusses. All timber of sound seasoned white pine, bridge timber quality. Framing to be executed in the very best manner with all requisite straps, bolts, rods, etc. of wrought iron as shown. Wall plates for jack rafters to be made continuous by splicing the joists and all well bedded. Purlins to be in long lengths spliced at the joints anchored to gable walls with 1/2" X 2" wrought iron anchors 2'0" long 12" heads. Trusses to be strongly spiked to plates. Gain purlins on principal jack rafters to be 20 inch apart and well spiked to supports. Stripping of 1 1/2" X 3" oak to be nailed to the bottom chord to carry ceiling joists.

the ceiling joists 2" X 6" spaced 16 inches from centers; 2" X 8" under tanks.

All roof timbers to be properly tied and braced during the progress of the work.

Rafters of sheriff's residence to be 2" X 6"; 22 inches from centers. Build this roof with such supports as may be needed. Provide look outs for main cornice and line, same to receive the timber work. Deck to be given 1/2" slope to the foot.

All roof sheathing to residence and jail to be 2nd corm dressed white pine flooring.

Frame trap door 2' X 2' 6" to roof over hallway where directed in sheriff's residence.

Cellar and gable windows to have 1 3/4" plank framed sash
1 3/8" thick hung in cellar and provided with proper fasteners.

All window in jail to have double box frames sash for 12 lights of 11" X 24" glass to be 1 3/4" thick hung with best hemp sash cords to suitable cast iron weights. Frames to have suitable turned axle pulleys of best quality. The joint between frame and brick work to be covered with bead finish as shown. Inner sill and caps of freestone.

Windows in residence to have double box frames provided with best quality turned axle pulleys. Sash 1 3/8" thick hung to suitable cast iron weights with best hemp sash cords. Lower story windows to have brass sash locks. The upper story to have Japanned iron locks. All of McGregors patent.

Finish architraves, stools, jambs, etc. as shown. All frames, sash, Finish, etc. of seasoned white pine 1st Corm and clear stuff qualities.

Finish all parts of sheriff's residence with a base 7 inches high of 7/8 stuff aspen margin.

All window in residence to have outside slat blinds of thick, with middle rail to all 1st story windows to be hung with self locking hinges and provided with proper fasteners.

All exterior doors to have paneled, raised, and beveled frames with molded impasts and transomed. All of white pine. Interior door frames of sound seasoned yellow poplar in all brick walls to be raised and beveled panels. Single rebated plain frames to closets.

All doors to be 1 3/8" thick, four paneled, and except the front door which must be paneled and molded; to be all raised and beveled. Hang doors with suitable butt hinges. Provide exterior doors with bolts. Closet doors to have wrought iron locks without knobs. All other doors unless in connection with prison apartments to have 6" wrought iron rim locks with brass works, keys, etc. and white mineral knobs.

Provide yellow pine carpet sills and stops for doors.

Front door to have side lights; 1 3/8" sash 4 inch muntins, molded impact, transom sash 1 3/8" thick, and fixed, paneled under sidelight.

Provide trap doors in ceiling and roof of dressed lumber.

Construct main stairs on good and sufficient bearers of white pine. Treads and risers of yellow pine. Treads 1 1/8" thick, finished with ogee nosings, scotia, etc. as per margin. Finish on ends with neat brackets.

Handrail of cherry 2" X 4" molded as shown on margin, balusters of 2" thick neatly turned of white oak. Newel of cherry turned with cap and base to be 6" thick.

Finish closet under stairs.

The stairs in back hall to be built on white pine bearers treads and risers of white pine. Finish with nosings. The side to finish with bulk heading from level of hand rail to floor of tongued, grooved and beaded white pine 1st corm lumber dressed on both sides to be 5 inches wide and under. Finish with white pine capping 2" X 2 1/2" See margin. Build plain plank stairs to cellar under the back stairs. Provide door at head of same. Also similar stairs to attic.

The verandah to be built as shown on the various drawings. The cornice, brackets, Facias, columns, and all moldings to be of 1st corm and clear white pine all seasoned. Ceiling joists 2" X 10" spaced 20 inches from centers. The slope of roof to be cut out of these 1/2 inch to the foot. Sheath and line gutter with dressed 2nd corm lumber. Ceil the verandah with 1 corm white pine, tongued, grooved, beaded and dressed. Not to exceed 5" in width.

Lay the floor with 1st corm white pine flooring not to exceed 4 inches in width, secret nailed, and well smoothed off. This material to be full inch thick.

Floor joists 2" X 10", 18 inches from centers, of white pine close up under front of verandah and at end with lattice work.

Exterior steps of 1st corm white pine finished with nosing and fillets, treads 1' 8" thick.

Fit up closets in kitchen and under stairs with wide shelves of 1st corm pine.

Chamber closets with one shelf and six wardrobe hooks each.

All chambers in 2nd story to have box molded mantles of clear white pine.

Construct stud partitions where shown. Studding of sound yellow poplar 16" from centers. 2" X 4" double at all openings and well blocked.

Construct tanks 2'0" wide and 2'0" deep and 4'0" long of 1 3/8" finished white pine well strapped with angle irons. Partition of water closet in female prison carry up to support tank. Lay floor of jail with 1 1/2" white oak flooring tongued, grooved, and dressed to be well seasoned. Not over 4 inches wide secret nailed. Floor in female prison of one inch thick oak similarly finished.

Exterior cellar way door to be made of dressed white pine flooring to be strongly battened. All 1st corm stuff; hang with wrought iron strap hinges 20" long leaded into stone coping frame. Secure with padlock fastenings and railroad switch lock.

Provide all grounds that may be needed.

The open fireplaces to be furnished with grates, 18 in baskets, fenders, fronts, etc. with firebrick setting complete at a cost of \$12.00 each.

Parlor to have marbleized mantle set complete to, to cost \$40.00. Other open fireplaces in 1st story to have box molded mantles of wood.

All studding and rafters to be of poplar.

Galvanized Iron & Tinwork.

The residence to have cornice of No. 20 galvanized iron worked as per drawings with moldings, brackets, facias. Also gable ornaments; all well soldered and riveted and

properly secured to woodwork. The ridge pieces and hips to be worked of No. 20 galvanized iron. The gutter of jail to rest in the corbeling of brickwork. To be made of No. 20 galvanized iron well and strongly strapped and made fully secure. Size the valleys with 26 galvanized iron joints clinched.

Gutters of residence to be lined with IX charcoal leaded roofing tin 14" X 20" sheets.

Provide two 5' down spouts of 26 galvanized iron to jail at the rear end. Both to discharge into galvanized iron pipe under ground as shown on ground plan.

there are to be three 3" fall pipes from cornice to ground line in residence and two 3" pipes from gutters of residence to gutters of jail roof. Two of these house pipes to discharge into ground pipes 4" diameter leading to house cistern. The other to flow off in ground. All pipes connected with cistern to have shut off boxers 2'0" above ground line. Provide oval mouths with copper wired strainers of circular form for pipes.

The verandah and deck of main roof of residence to be covered with IX leaded charcoal tin 14" X 20" sheets laid with soldered joints and well secured to woodwork. Verandah gutters lined with same material. Provide 2" tin down spout to verandah.

All flashings of chimneys, vent shafts, and wall of residence against which the jail roof abuts to be erected in the very best manner. With all requisite counter flashings, etc. complete. Flashings in connection with jail roof of galvanized iron. All others of IX tin. All to be neatly pointed up with cement.

Provide 7" thimbles of cast iron with tin covers for same for all rooms in residence and female prison.

Cover the slopes of all roofs with best quality Vermont purple slates from the Eagle Hydeville quarries, laid with 3" lap and secured to woodwork with composition nails. To be double at the eaves. Put on ride and hip pieces.

Plumbing.

Provide two of "Carr's Hospital Valve Closets" one in the jail by vent shaft and one in female prison. Each to be properly trapped and connected with 4 inch cast iron soil pipe; from jail to be carried down and through the vent shaft 2'0" below grade line of yard. From female prison down in angle where shown, each of these soil pipes to be carried full 12 inches beyond the exterior face of stone walls. Supply pipes to closets 5/8" strong. Provide two cast iron sinks 3'6" X 20 inches and 6" deep. For location see drawings. Waste pipes 1 1/2" lead pipe, medium strength discharging into soil pipes. Two tanks 4'0" long 2'0" deep and 2'0" wide, one to be placed in roof loft by vent shaft. To be lined with 5 lb. lead. Provide overflow and waste pipe 1 1/2" medium discharging into soil pipe. Also 1/2" telltale pipes discharging into bathtub. One tank in female prison over water closet.

Supply tanks and bathtub by means of 3 in brass cylinder force pump with air vessel. 1 1/4 in supply pipe connected with cistern where shown, 1 inch discharge pipe to tub, with 1" brass stop cocks to the rising mains, rising main extra strong inch lead pipe. Provide one inch brass cock with hose nozzle to tub.

Provide cast iron bathtub where shown. "Mott" new pattern 5' 6" long with overflow cast on same. To be

supplied by pump. Waste pipe 1 1/2 medium. The sinks to be both supplied by 5/8" medium lead pipe from tanks and furnished with brass cocks. These sinks to have cast iron backs 18 inches high.

Provide one 3" cast iron cistern pump in connection with kitchen sink. This sink 18" X 30", 6 " deep. Waste pipe 1 1/2" discharging into soil pipe. Connect the pump with cistern with 1 1/4" medium strength pipe.

All the above work to be of best quality, full and complete. Put up with hall holders, tags, etc. as necessary.

Pumps to be strongly put up.

Supply pipes of water closets to have stop and waste cocks at tanks.

Plastering.

All ceilings in residence (except female prison), also jail to be lathed with best quality sawed white pine laths well nailed on and broken pointed. Stud partitions and soffits of stairs to be lathed in same manner. And all plastered three coat work, with hard white finish. All brick wall in residence to be plastered three coat work, hard white finish.

Mortar to be composed of clean sharp sand, fresh slaked lime, and long winter hair well beaten, mixed with clean water.

Work to be straight, far, and out of mind, and left in clean and perfect condition at completion of job.

Painting-glazing, etc

All dressed woodwork usually painted to be well primed before it is built into structure.

All woodwork usually painted to have three good coats of lead and oil paint unless otherwise specified. Window frames, floors of verandah, lattice work, base of same, and exterior wood steps to be painted dark stone color. All exterior window sash, ceilings of verandah, woodwork of parlor to be finished white. Front door to be grained imitation oak, also all sash muntins framework, etc. in connection with same, and all varnished with best quality of varnish.

All other painted woodwork of doors to be finished in two colors. Panels white with a very little of blue in same. Rails and stiles also architraves of doors imposts. Architraves, jambs, and interior face of sash to be finished light buff or ground for light oak graining. Bulkheading of back stairs finished in same manner. Base boards darker shade of same color.

Woodwork of female prison finished stone color. Also all windowwork in jail. Other exterior woodwork to be finished stone color, cornice of verandah dark, also brackets and column caps, bands, and bases. Shafts of columns facias, etc. light. Wood mantles and plastering inside of same to be painted four coats black and varnished with coach varnish. Front stairs to be varnished four coats coach varnish. Outside shutters to be finished medium magnesia green.

Galvanized ironwork, tin work, and wrought ironwork to be painted two coats. Cornice finished dark stone color except for the facia between brackets which must be light stone color.

Ironwork of cells, lattice guard, etc. wind grating to be The plate door to jail from back...wooden doors.

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.....requiring putty up nail holes, etc. ...best Pittsburgh glass....

Filed April 26, 1871
J. Carrol Harriss
County Clerk



